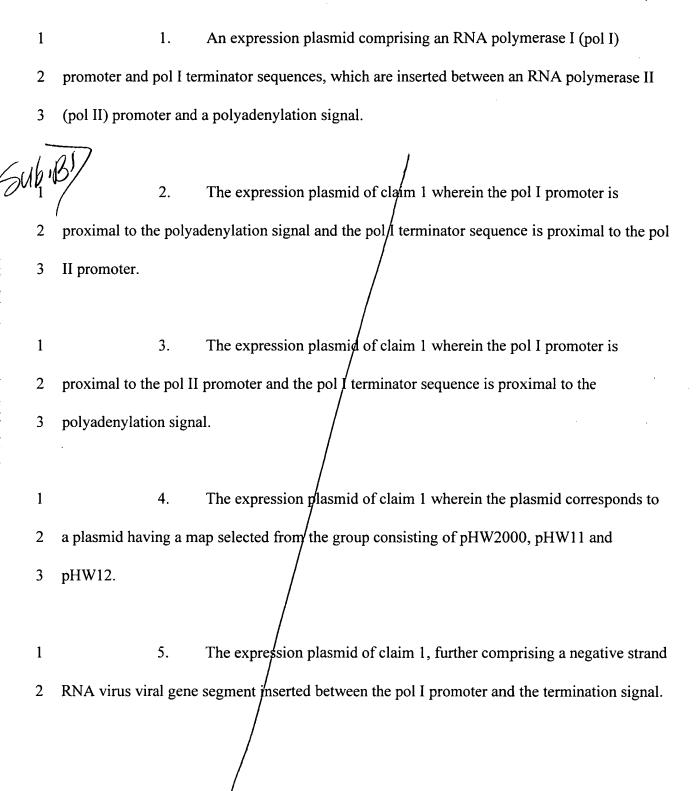
WHAT IS CLAIMED:



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1 6. The expression plasmid of claim 5, wherein the negative strand RNA virus is a member of the Orthomyxoviridae virus family. 2 The expression plasmid of claim 6, wherein the virus is an influenza A 1 7. 2 virus. The expression plasmid of claim 7, wherein the viral gene segment 8. encodes a gene selected from the group consisting of a viral polymerase complex protein, M protein, and NS protein; wherein the genes are derived from a strain well adapted to grow in 3 cell culture or from an attenuated strain, or both. 1 9. The expression plasmid of claim 6, wherein the virus is an influenza B 2 virus. 1 10. The expression plasmid of claim 8 wherein the plasmid has a map selected from the group consisting of pHW241-PB2, pHW242-PB1, pHW243-PA, pHW245-2 NP, pHW247-M, and pHW248-NS. 3 The expression plasmid of claim 8 wherein the plasmid has a map 1 11. 2 selected from the group consisting of pHW181-PB2, pHW182-PB1, pHW183-PA, pHW185-NP, pHW187-M, and pHW188-NS.

proximal to the pol II promoter.

3

12. The expression plasmid of claim 7, wherein the viral gene segment encodes a gene selected from the group consisting of an influenza hemagglutinin (HA) gene 3 and a neuraminidase (NA) gene. 13. 1 The expression plasmid of claim 12, wherein the influenza gene is from a pathogenic influenza virus strain. 2 14. The expression plasmid of claim 12, wherein the plasmid has a map selected from the group consisting of pHW244-HA, pHW246-NA, pHW184-HA, and 3 pHW186-NA. 1 15. A minimum plasmid-based system for the generation of infectious 2 negative strand RNA viruses from cloned viral cDNA comprising a set of plasmids wherein 3 each plasmid comprises one autonomous vifal genomic segment, and wherein the viral cDNA corresponding to the autonomous viral genomic segment is inserted between an RNA 4 5 polymerase I (pol I) promoter and terminator sequences, thereby resulting in expression of vRNA, which are in turn inserted between a RNA polymerase II (pol II) promoter and a 6 7 polyadenylation signal, thereby resulting in expression of viral mRNA. 1 16. The minimum plasmid-based system of claim 15 wherein the pol I 2 promoter is proximal to the polyadenylation signal and the pol I terminator sequence is

Sub-1012

1

- 17. The minimum plasmid-based system of claim 15 wherein the pol I promoter is proximal to the pol II promoter and the pol I terminator sequence is proximal to the polyadenylation signal.
- 1 18. The plasmid-based system of claim 15, wherein the negative strand
- 2 RNA virus is a member of the *Orthomyxo* viridae virus family.
- 1 19. The plasmid-based system of claim 18, wherein the virus is an
- 2 influenza A virus.
- 1 20. The plasmid-based system of claim 18, wherein the virus is an
- 2 influenza B virus.
 - 21. The plasmid-based system of claim 19, wherein the viral gene segment
- encodes a protein selected from the group consisting of a viral polymerase complex protein,
- 3 an M protein and an NS protein; wherein said genes are from a strain well adapted to grow in
- 4 cell culture or from an attenuated strain, or both.
- 1 22. The plasmid based system of claim 19, wherein the viral genomic
- 2 segments comprise genes which/encode a protein selected from the group consisting of

- 1 hemagglutinin and neuraminidase, or both; wherein said genes are from a pathogenic
- 2 influenza virus.
- 1 23. The plasmid-based system of claim 19 wherein said system comprises
- 2 one or more plasmids having a map selected from the group consisting of pHW241-PB2,
- 3 pHW242-PB1, pHW243 -PA, pHW244-HA, pHW245-NP, pHW246-NA, pHW247-M, and
- 4 pHW248-NS.
- 1 24. The plasmid-based system of claim 19, wherein said system comprises
- 2 one or more plasmids having a map selected from the group consisting of pHW181-PB2,
- 3 pHW182-PB1, pHW183 -PA, pHW184-HA, pHW185-NP, pHW186-NA, pHW187-M, and
- 4 pHW188-NS.
- 1 25. A host cell comprising the plasmid-based system of claim 15.
- 1 26. A host cell comprising the plasmid-based system of claim 18.
- 1 27. A host cell comprising the plasmid-based system of claim 19.
- 1 28. A host cell comprising the plasmid-based system of claim 22.

1 29. A method for producing a negative strand RNA virus virion, which method comprises culturing the host cell of claim 25 under conditions that permit production 2 3 of viral proteins and vRNA or cRNA. 1 30. A method for producing an Orthomyxoviridae virion, which method comprises culturing the host cell of claim 26 under conditions that permit production of viral 2 3 proteins and vRNA or cRNA. 1 31. A method for producing an influenza virion, which method comprises culturing the host cell of claim 27 under conditions that permit production of viral proteins 2 and vRNA or cRNA. 3 A method for producing a pathogenic influenza virion, which method 1 32. 2 comprises culturing the host cell of claim 28 under conditions that permit production of viral 3 proteins and vRNA or cRNA. 1 A method for preparing a negative strand RNA virus-specific vaccine, 33. which method comprises purifying a virion produced by the method of claim 29. 2 1 34. The method according to claim 33, which further comprises 2 inactivating the virion.

		-84- ^
1	35.	The method according to claim 33, wherein the negative strand RNA
2	virus is an attenuated	virus.
1	36.	A method for vaccinating a subject against a negative strand RNA virus
2	infection, which method comprises administering a protective dose of a vaccine of claim 33 to	
3	the subject.	
1	37.	A method for vaccinating a subject against a negative strand RNA virus
2 .	infection, which method comprises injecting a protective dose of a vaccine of claim 33	
3	intramuscularly in th	e subject.
1	38.	A method for vaccinating a subject against a negative strand RNA virus
2	infection, which method comprises administering a vaccine of claim 33 intranasally to the	
3	subject.	
1	39.	A method for generating an attenuated negative strand RNA virus,
2	which method comprises:	
3	(a)	mutating one or more viral genes in the plasmid-based system of claim
4	15; and	
5	(b)	determining whether infectious RNA viruses produced by the system
6	are att	enuated.

- 1 40. A composition comprising a negative strand RNA virus virion, wherein
- 2 viral internal proteins of the virion are from a virus strain well adapted to grow in culture or
- 3 from an attenuated strain, or both and viral antigen proteins, of the virion are from a
- 4 pathogenic virus strain.
- 1 41. A composition comprising a negative strand RNA virus virion
- 2 produced by the method of claim 29.

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